In the claims:

For the Examiner's convenience all pending claims are presented herein. Those claims that remain unchanged by this amendment are prefixed with "(Unchanged)". Please amend claims as follows:

1	1.	(Unchanged) A striping disk controller and disk drive system for a
2		computer system wherein said computer system includes a CPU connected
3		to a system bus and executes an operating system including a BIOS, said
4		striping disk controller and disk drive system comprising:
5		an interface connected to said system bus and communicating with said
6		BIOS;
7		first and second disk drives each having data separator electronics, data
8		formatting electronics and head positioning electronics;
9		a striping controller connected between said first and second disk drives
10		and said interface, said striping controller to cause data being
11		communicated between said system bus and said first and second drives to
12		be written to and read from said first and second drives in an interleaved
13		form and substantially in parallel.

1	2.	(Unchanged) The system of claim 1 wherein said data being
2		communicated between said system bus and said first and second drives is
3		subdivided into a plurality of sequential blocks and said first drive is
4		accessed for every other block of data and said second drive is accessed
5		for the remaining blocks.

1   3.   (Unchanged) The system of claim 1 wherein said BIOS supplies a system

2   request that includes a sector bit string, a head bit string, a track bit string

3   and a driver bit and wherein said striping controller maps bits of said

4   system request to a first system request data structure to be supplied to

5   said first disk drive and a second system request data structure to be

6   supplied to said second disk drive.

1   7.   (Unchanged) A method of writing data onto two disk drives using a

2   striping controller connected to system bus, said method comprising:

3   receiving at a striping controller a system request intended for a single

4   physical drive from the system bus; and

5   writing to and reading from a first and a second drive in an interleaved

6   form and substantially in parallel in response to said system request.

1   8.   (Unchanged) A striping disk controller comprising:

2   an interface connectable with a system bus and communicating data via

3   said system bus; and

4   control logic connected with said interface to cause data being

5   communicated via said system bus to be written to and read from a first

6   and a second disk drive in an interleaved form and substantially in

7   parallel.

1   9.   (Unchanged) The controller of claim 8 further including:

2   control logic to subdivide said data being communicated via said system

3   bus into a plurality of sequential blocks, said control logic further designed

4   to access said first drive for every other block of data; and said control

5   logic further designed to access said first drive for every other block of

6   data; and said control logic further designed to access said second drive

7   for the remaining blocks.

1   10.   (Unchanged) The controller of claim 8 further including:

2   control logic to receive a system request that includes a sector bit string, a

3   head bit string, a track bit string and a driver bit; and

4   control logic to map bits of said system request to a first system request

5   data structure to be supplied to said first disk drive and a second system

6   request data structure to be supplied to said second disk drive.

1   11.   (Unchanged) The controller of claim 8 further including:

2   control logic to receive a system request intended for a single physical

3   drive from the system bus.

1   12.   (Unchanged) An apparatus for writing data onto two disk drives connected

2   to system bus, said apparatus comprising:

3   means for receiving a system request intended for a single physical drive

4   from the system bus; and

5   means for writing to and reading from a first and a second drive in an

6   interleaved form and substantially in parallel in response to said system

7   request.

1   13.   (Unchanged) The apparatus of claim 12 further including:

2   means for subdividing said data being communicated between said system

3   bus and said first and second drives into a plurality of sequential blocks;

4   means for accessing said first drive for every other block of data ; and

5   means for accessing said second drive for the remaining blocks.

1   14.   (Unchanged) The apparatus of claim 12 further including:

2   means for supplying a system request that includes a sector bit string, a

3   head bit string, a track bit string and a driver bit; and

4   means for mapping bits of said system request to a first system request

5   data structure to be supplied to said first disk drive and a second system

6   request data structure to be supplied to said second disk drive.

1   15.   (Unchanged) A striping disk controller and disk drive system for a

2   computer system wherein said computer system includes a CPU connected

3   to a system bus and executes an operating system including a BIOS, said

4   striping disk controller and disk drive system comprising:

5   means for interfacing with said system bus and communicating with said

6   BIOS;

7   first and second storage means each having data separator electronics, data

8   formatting electronics and head positioning electronics;

9   a controller means connected between said first and second storage means

10   and said means for interfacing, said controller means to cause data being

11   communicated between said system bus and said first and second storage

12   means to be written to and read from said first and second storage means

13   in an interleaved form and substantially in parallel.